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Record

May 14, 2004

Volume 28 No. 33

Treasuring the Past



Washington University in St. Louis

Shaping the Future

Celebrating 150 Years



A beautiful new look at the center of the Hilltop

Above, guests admire the new statue of George Washington installed outside the south entrance of Olin Library, which was rededicated May 7 in a ceremony attended by about 800 people. At right, guests celebrate in the new "Whispers Café," which features a hand-made "tree." And at far right, addressing the audience as part of the rededication ceremonies are keynote speaker Neil Rudenstine (top), head of ARTstor and former president of Harvard University; and Shirley K. Baker, vice chancellor for information technology and dean of University Libraries. (Photos by Joe Angeles)



Kemper elected board chairman

At its May 7 meeting in the Charles F. Knight Executive Education Center, the University's Board of Trustees elected David W. Kemper, president and chief executive officer of Commerce Bancshares Inc., as chairman of the board for the 2004-05 fiscal year, according to Chancellor Mark S. Wrighton.

The trustees elected John F. McDonnell, retired chairman of the board of McDonnell Douglas Corp., and Stephen F. Brauer, chief executive officer of Hunter Engineering, as vice chairmen.

Three new trustees were elected to the board: Cynthia Brinkley, president-Missouri, SBC Southwestern Bell Telephone Co.; Jerald L. Kent, chief executive officer, Cequel III LLC; and Lawrence E. Thomas, principal, corporate bonds, Edward Jones.

Elected as a life trustee was Sam Fox, chairman and chief executive officer, Harbour Group, Ltd., chairman of the Campaign for Washington University and a longtime trustee. Elected trustees emeritus were Clarence C. Barksdale and Benjamin F. Edwards III, chairman emeritus of A.G. Edwards Inc.

Four students were named 2004-05 representatives to the board. Undergraduate appointees are Zachary Friedman, Clemmons, N.C. (College of Arts & Sciences, Class of 2005); and Teresa Sullivan, Aurora, Ill. (College of Arts & Sciences, Class of 2005).

The graduate student representatives will be Christopher Goddard, St. Louis (School of Law, Class of 2005); and Anna Terry, Fort Smith, Ark. (School of Medicine, Class of 2007).



Kemper

McDonnell has served as chairman of the board for five years.

"John McDonnell has led this distinguished board during one of the most dramatic periods in the institution's history," Wrighton said.

"His outstanding leadership as chairman of the quiet phase of the Campaign for Washington University and then as the board chairman have seen this institution grow in stature — especially in admissions, facilities, endowed professorships, scholarships and reputation.

"I am delighted that we will continue to enjoy his active involvement as a vice chair of the board and as a life member of the board."

Kemper has served as vice chairman of the board since 2001. He serves on several committees: executive, compensation, Hilltop finance, University finance and nominating. He is completing a term as chair of the University Libraries National

See Board, Page 4

4 elected to American Academy of Arts and Sciences

By ANDY CLENDENEN AND DIANE DUKE WILLIAMS

The University's Carl Frieden, Jeffrey I. Gordon, John F. McDonnell and Carl Phillips can now stand proudly beside George Washington, Ben Franklin, Albert Einstein and Winston Churchill.

Those four from WUSTL have joined those four from history as being elected into the American Academy of Arts and Sciences.

Frieden, Ph.D., is the Wittcoff Professor of Biochemistry and Molecular Biophysics; Gor-

don, Ph.D., is the Dr. Robert J. Glaser Distinguished University Professor.

McDonnell is chairman of the Board of Trustees, and Phillips is professor of English and of African and Afro-American Studies, both in Arts & Sciences.

"The Washington University community is rich in talented and accomplished individuals who have contributed enormously to science, the humanities, their profession and to the University," Chancellor Mark S. Wrighton said. "It is wonderful to see that great recognition has come to four of our colleagues as newly

elected fellows of the American Academy of Arts and Sciences."

The current membership of over 4,500 includes more than 150 Nobel laureates and 50 Pulitzer Prize winners, as well as this year's class of 178 new fellows and 24 new foreign honorary members.

Frieden, who heads the Department of Biochemistry and Molecular Biophysics, focuses on a major problem in biochemistry — how proteins fold into their correct shapes.

He has developed a variety of techniques to

See Academy, Page 6

Goldwater scholarships go to 4 sophs

By NEIL SCHOENHERR

Arts & Sciences students made an impressive showing in their annual quest for prestigious national scholarships and fellowships, including four sophomores who have been awarded a Barry M. Goldwater Scholarship for the 2004-05 academic year.

It's the second time in the past three years that the University has had four Goldwater recipients.

The scholarship, which supports outstanding students pursuing careers in mathematics, science and engineering, covers up to \$7,500 annually toward tuition, fees and books in their junior or senior year.

"It's a mark of high distinction for one institution to have four Goldwater Scholars in a given year," said Dirk M. Killen, Ph.D., assistant dean, academic coordinator and fellow-

See Goldwater, Page 6

This Week In WUSTL History

May 15, 1960

Steinberg Hall formally opened. The building was the first commission for architect and then-faculty member Fumihiko Maki, who would go on to win the 1993 Pritzker Prize and is designing two buildings for the new Sam Fox Arts Center.

This feature will be included in each 2003-04 issue of the Record in observance of Washington University's 150th anniversary.

Gene maps of simpler life shed light

By MICHAEL C. PURDY

In an experiment that demonstrates how maps of the genetic codes of simpler organisms can shed light on human disease, a computerized comparison of the complete genetic codes of a type of algae, a weed and humans has led medical researchers to a gene linked to a human illness.

The comparison allowed University researchers to locate human genes that code for proteins likely to become part of hair-like

structures on cells known as cilia or flagella.

Researchers at Johns Hopkins University used the findings to pin down the location of a gene that contributes to Bardet-Biedl Syndrome (BBS), a rare genetic condition that causes blindness, mental retardation, severe obesity and many other problems.

The genetic comparison was arranged by Susan Dutcher, Ph.D., professor of genetics and of cell biology and physiology at Washington University, who stud-

ies cilia in the green alga *Chlamydomonas*.

"Almost every cell in the human body has cilia," Dutcher said. "Cilia that are active early in development ensure that organs like the heart and stomach end up where they're supposed to be.

"Cilia clear away dirt and bacteria in the respiratory tract, help sperm swim and help keep fluid flowing into and out of the brain, just to name a few examples."

Cilia and basal bodies, the

See Gene, Page 6

Showing appreciation

Annual Staff Day is May 24

BY ANDY CLENDENNEN

Commencement will have come and gone, summer weather will be in full swing and University staff members will have their day in the sun on Staff Day May 24.

The event, in its 29th year, honors personnel for their contributions to the University's success. This year's edition will kick off at 10:30 a.m. with the Staff Service Award and Recognition Ceremony in Edison Theatre.

Chancellor Mark S. Wrighton will host the program and will be assisted by the University's vice chancellors and deans. The ceremony will honor those with 10, 15, 20, 26 and 30-plus years of service.

Also presented will be the seventh annual Gloria W. White Distinguished Service Award, recognizing a staff member for exceptional effort and contributions that result in the enhancement of the University.

A buffet lunch and social gathering will be at noon in Bowles Plaza. In case of inclement weather, lunch will be in Mallinckrodt Student Center.

From 1-3 p.m., open activities for staff members include wallyball and racquetball, swimming, running on Bushyhead Track and use of the fitness center in the Athletic Complex. Those preferring something less strenuous can have a caricature drawn or try their luck at bingo, bridge and other table games in Holmes Lounge.

Tyson Research Center personnel will be offering two tours of the facility: a forest hike that will include information about the Center's Native American history, and a visit to the abandoned Mincke Hollow mining town and quarry cave. For information on the tours, call Joyce Duncan at 935-8430.

In addition, the following group activities will be available:

- Video presentation of *Me, Vashya*, a play Tennessee Williams wrote as a WUSTL student. Henry

"Staff members at this University work very hard ... They deserve their own day of recognition."

ANN B. PRENATT

I. Schvey, Ph.D., chair of the Performing Arts Department in Arts & Sciences, will host pre- and post-performance discussions. Call Tom Evola at 935-9818 for more details.

- Golf at Forest Park: Call Bev Owens at 935-6482. Golfers will have box lunches at the park before their 12:15 p.m. tee time.

- A Hilltop Campus tour: Call Jim Burmeister at 935-5801.

- A bike ride in Forest Park: Call Bobbe Winters at 935-6231.

- Softball: Call Tom Lauman at 935-5967.

- Volleyball: Call Janine Prostdomasky at 935-9525.

- WUSTL Walks: Call Betsy Foy at 935-7386.

At 3:30 p.m. in Bowles Plaza, winners of various activities will be presented with trophies or plaques, and there will be drawings for grand prizes. Treats from Ted Drewes also will be available on a first-come, first-served basis during the awards.

"Staff members at this University work very hard and contribute daily to the University's success," said Ann B. Prenatt, vice chancellor for human resources. "They deserve their own day of recognition, and a great deal of time and effort is put into the organizing and implementing of the event by the Staff Day Committee and the Office of Human Resources.

"All the work we put into it is worth it when we see the smiles of those receiving service awards, colleagues enjoying the competitions and staff members just out having a fun afternoon."

For more information, call 935-5990.



Edward S. Macias, Ph.D. (right), receives congratulations at his surprise birthday party, given by Chancellor Mark S. Wrighton at Harbison House March 5. Wrighton further surprised Macias at the event by announcing that the executive vice chancellor and dean of Arts & Sciences would be the inaugural holder of the Barbara and David Thomas Distinguished Professorship in Arts & Sciences. Congratulating Macias are (from left) David Thomas, Wrighton, Barbara Thomas and Macias' wife, Tedi.

Thomases endow professorship; Macias named inaugural holder

BY BARBARA REA

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, has been named the Barbara and David Thomas Distinguished Professor in Arts & Sciences, Chancellor Mark S. Wrighton announced.

The professorship is a gift of Barbara and David Thomas, who also endowed a professorship in the humanities five years ago. A formal installation is planned for Dec. 1.

"Barbara and David Thomas are tremendous supporters of Arts & Sciences, and this professorship joins a list of many generous gifts they have bestowed upon Washington University," Wrighton said. "Their support is a tribute to the valuable teaching and scholarship that our faculty and students pursue.

"Thanks to their extraordinary generosity, we can recognize Ed's many contributions as a scholar in his field and a champion of great teaching."

Wrighton also praised Macias for his visionary leadership at the

University.

"In his leadership roles, Ed has been a major force in strengthening and broadening the arts and sciences at Washington University," Wrighton said. "As provost, he chaired the committee to prepare for the 21st century. As executive vice chancellor and dean of Arts & Sciences, he helped make those future initiatives possible."

For the past 34 years, Macias has served in many different roles at the University. He joined the Arts & Sciences faculty in 1970 as an assistant professor of chemistry and became a full professor in 1984. In the 1980s, Macias added administrative roles to his full-time teaching and research, serving as the director of the Summer School program and chair of the Department of Chemistry. In 1988, he was appointed provost, and in 1995 he was named to his present positions.

His research interests include environmental and nuclear chemistry, focusing on the chemistry and physics of atmospheric particles and the effect of these particles on haze and air pollution. Widely consulted for his expertise, Macias has been called upon to assist national and governmental institutions, including the National Research Council of the National Academy of Sciences.

Macias earned a bachelor's degree from Colgate University in 1966 and a doctorate from Massachusetts Institute of Technology in 1970.

The Thomases are dedicated supporters of Arts & Sciences. Barbara Thomas is a WUSTL alumna, having graduated in 1976 with a degree in drama. After several acting jobs and graduate work in both drama and business, she entered the corporate world

and is now senior vice president and chief financial officer of HBO Sports.

In recognition of her support of boxing, both individually and through HBO, she was inducted into the Boxing Hall of Fame last year. She has been with HBO since 1983, serving in a number of financial and administrative positions.

She has been a member of the University's Board of Trustees since 1994 and has served on the Arts & Sciences National Council for 13 years. In addition, she has provided leadership support for the Campaign for Washington University by co-chairing major gifts for Arts & Sciences, co-chairing the New York Regional Campaign and serving as a national vice chair of the regional campaigns.

After a successful few years as an investment banker, David Thomas co-founded The Leitner Thomas Group, a buyout firm based in New York City. He serves as a principal in the firm, which specializes in small-to-medium private buyouts.

Barbara met him when they were graduate students at Northwestern University; each earned a master of business administration degree in 1979.

In addition, David Thomas earned undergraduate and graduate degrees in East Asian studies from the University of Illinois and Yale University, respectively.

He serves as president of the Trevor Day School Board of Trustees and is on the board of Meet the Composer, an organization that increases opportunities for composers by fostering the creation, performance, dissemination and appreciation of their music.

'Nun study' researcher to give Friedman Lecture

BY GILA Z. RECKESS

What do nuns have to do with understanding aging? A lot, according to renowned author and epidemiologist David Snowdon, Ph.D., this year's keynote speaker for the Center for Aging's Fourth Annual Friedman Lecture.

The lecture and an update on the center's activities will be from 9 a.m.-noon May 18 in Brown Hall Auditorium.

Snowdon has studied 678 women from the School Sisters of Notre Dame. Each gave him unprecedented access to personal and medical histories and pledged to donate her brain to his research.

It is the largest pool of brain donors in the world, and information gleaned from this population has led to key discoveries on living productive, healthy lives well into old age.

Findings from the "nun study" have appeared in several prestigious scientific journals, including the *Journal of the American Medical Association*, and have been featured in national media outlets including *The New York Times* and NBC's *Today* show. In 2001, Snowdon published *Aging With Grace*, a book about his experiences.

The event is free and open to the public. For more information, go online to wucfa.wustl.edu.

PICTURING OUR PAST



In 1963, the University obtained land classified as surplus property from the federal government and turned it into what is now the Tyson Research Center, a 2,000-acre field station near the Meramec River, just outside the St. Louis metropolitan area. In 1974, a sizable portion of Tyson was included in the Beaumont-Tyson Quarry District, a 44-square mile area listed in the National Register of Historic Places. This designation derives from the presence of an estimated 6,000-10,000 chert quarries along the ridge tops in the district. Tyson is managed by WUSTL and is available for research and environmental studies (such as the biodiversity and ecosystem study above that used 300-gallon water tanks to simulate small pond communities). Part of the Organization of Biological Field Stations network, Tyson is also used for educational and other activities by researchers and approved outreach groups. Oak-hickory forest covers about 85 percent of the hilly, karst-dominated landscape that is home to many varieties of ferns, mushrooms, wildflowers, and other plants and trees. While bears, mountain lions and elk can no longer be found at Tyson, deer, coyotes, foxes, bobcats, bats and other mammals remain. Bird-watching is a popular activity at Tyson, as is looking for butterflies and dragonflies.



Washington University is celebrating its 150th anniversary in 2003-04. Special programs and announcements will be made throughout the yearlong observance.

School of Medicine Update

First response

Emergency medicine program created for first-year students

BY HOLLY EDMISTON

From severe burns to bioterrorism, the First Responders program at the School of Medicine offers first-year medical students an opportunity to learn how they can contribute if disaster strikes.

Students begin working with patients early in their first year, but Mark D. Levine, M.D., assistant professor of emergency medicine and director of the First Responders program, said students feel unprepared about encountering an emergency situation.

"Medical students are interested in serving and getting involved in patient care," said Levine, who also is medical director of the St. Louis Fire Department. "By providing an opportunity to learn about emergency medicine early in their medical careers, students' desire to help can be supported by basic skills and knowledge."

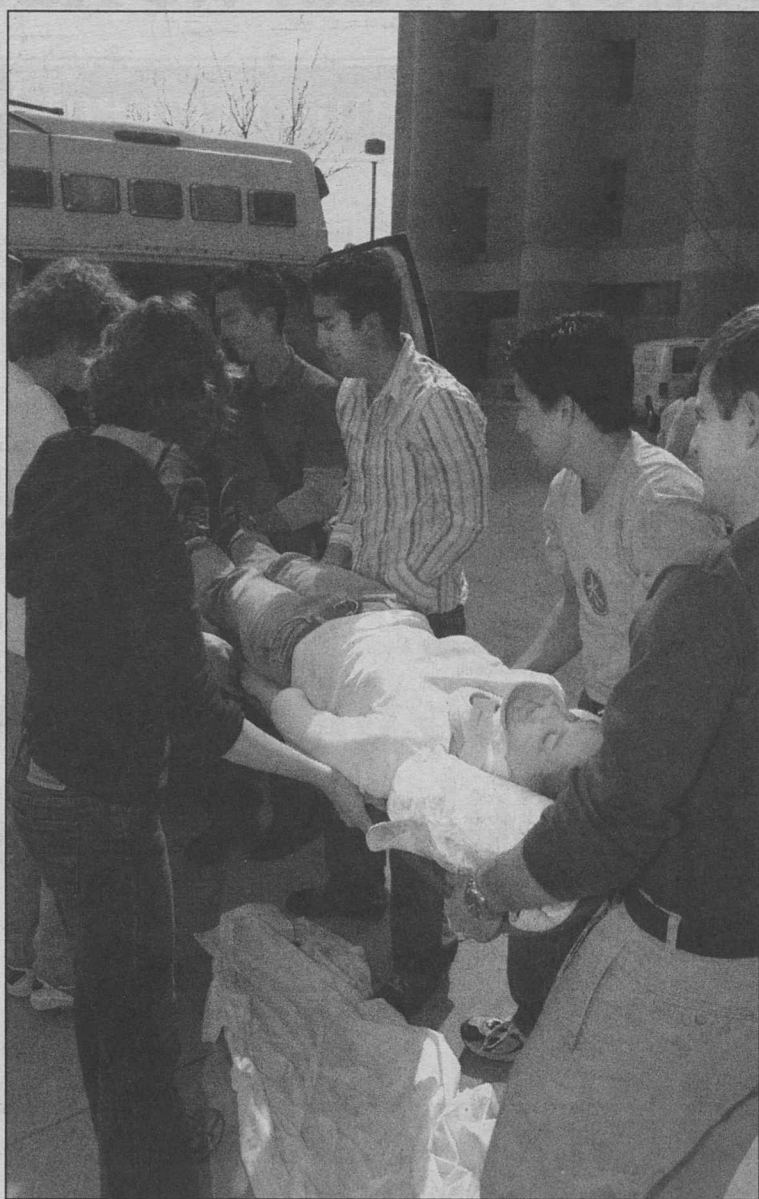
The events of September 11 reinforced the need for crises preparation, and that includes the training of medical students, said Robert J. Rothbaum, M.D., professor of pediatrics and coursemaster for "The Practice of Medicine," of which First Responders is a part.

"Students need to be prepared to respond to various types of emergencies, whether that's a car accident or bioterrorism, and need to be ready to step in and be of assistance to other medical professionals," he said.

Students participating in the annual First Responders program rotate through four learning stations, spending about 25 minutes at each. The one-day course familiarizes students with common disaster scenarios and provides them with basic information about how to intercede.

The Patient Contact/Immobilization station allows students to practice the initial approach to a patient and provides hands-on contact (with their classmates as volunteers) in treating a mock accident victim while wearing protective gear.

The students learn how to provide in-line stabilization of a patient, correctly place a cervical collar and secure the patient to a backboard, with discussion about the risks of incorrect patient



(Clockwise, from front left) First-year medical students Megan Denzel, Kevin Alford, Seth Stalcup, Paymon Rahgozar and Derek Williams work with Mark D. Levine, M.D., on the team approach to properly lifting and loading fellow first-year student and "victim" Katherine Fleming into an ambulance.

treatment. A tour and explanation of the equipment commonly found on an ambulance also is given.

At the second station, Disaster Medicine Concepts, students hear a brief lecture on the concepts of scene safety given by David Tan, M.D., instructor in medicine, medical director of Abbott EMS and a member of the Missouri Disaster Medical Assistance Team. They discuss who the scene commander is and to whom and how transfer of patients should occur.

The Environmental Emergencies station consists of a lecture with graphic images of burns, cold injury, electrical injury and mammalian/insect/snake bites, with a review of basic pathophysiology. Treatment do's and don't's are examined from a medical-urban legend viewpoint.

At the final station, Stabilization, students get hands-on

experience in treating the patient with controlled or uncontrolled hemorrhage and/or long bone fracture.

Students learn to apply direct pressure and bandages to each other and to splint arms, legs, ankles and fingers. Shock and pain control, as well as appropriate patient handling to protect the affected extremity, also are discussed.

First-year medical student Megan Denzel was excited to have the opportunity to learn more about helping out in an emergency. She says that while most medical students are aware of their abilities — what they can and can't do — people often expect them to intervene when a medical situation arises.

"Our main responsibility is to be aware of available resources," she said. "By learning that, we can be a help, not a hindrance."

Minimally invasive colon cancer surgery is effective

BY GILA Z. RECESS

Getting treated for a common type of cancer just became easier.

An international team of surgeons, including two from the School of Medicine, determined that minimally invasive surgery is as safe and effective as standard open surgery for most patients with cancer confined to the colon.

In addition to the cosmetic benefits of having a smaller incision, patients who received the minimally invasive procedure, called laparoscopically assisted colectomy, also required one less day in the hospital, one less day on intravenous pain killers and one less day on oral pain killers.

The team cautions, though, that the procedure is only safe and effective if stringent surgical standards are followed.

"When we started this study, we were concerned that the procedure itself could help the cancer spread, so we wanted to make sure it wasn't going to result in a bad outcome for our patients," said James W. Fleshman Jr., M.D., professor of surgery. "We found that, in the hands of an experienced surgeon, laparoscopically assisted colectomy is indeed an acceptable alternative for treating colon cancer. Now we have the task of defining who is an 'experienced surgeon.'"

Fleshman was a key contributor to the study, which was led by the Mayo Clinic. The results were presented May 12 at the annual meeting of the American Society of Colon and Rectal Surgeons in Dallas and are published in the May 13 issue of the *New England Journal of Medicine*.

About 100,000 Americans are diagnosed with colon cancer each year, and more than 90 percent of them require surgery.

Typically, surgeons open the abdomen with a six-to-eight-inch incision and cut away the portion of the colon containing cancer. During laparoscopically assisted colectomy, the same procedure

"We found that, in the hands of an experienced surgeon, laparoscopically assisted colectomy is indeed an acceptable alternative for treating colon cancer. Now we have the task of defining who is an 'experienced surgeon.'"



JAMES W. FLESHMAN JR.

is performed through three half-inch incisions and one two-inch incision.

The minimally invasive version has been performed since 1990, but some small studies suggested that patients who underwent laparoscopically assisted colectomy were more likely to have another bout of colon cancer or to develop cancer at or near the surgical incisions.

"Most patients ask for minimally invasive surgery because it's less painful and requires a smaller incision," Fleshman says. "But no one had rigorously evaluated the safety and effectiveness of the procedure."

So a group of American and Canadian colon surgeons did something rare in the medical field: They launched the first systematic study of the procedure and put a moratorium on laparoscopically assisted colectomy performed outside the scope of their study.

The team also enforced qualification requirements for the 66 surgeons who participated in the study and established standardized operating procedures.

Ludmerer receives history of medicine book award

BY DIANE DUKE WILLIAMS

The American Association for the History of Medicine (AAHM) has named Kenneth M. Ludmerer, M.D., professor of medicine and of history in Arts & Sciences, the recipient of the 2004 William Welch Medal.

He is being recognized for his book, *Time to Heal: American Medical Education from the Turn of the Century to the Era of Managed Care*.

The award, which recognizes the author of the outstanding book in the history of medicine published during the preceding five years, was announced May 1 at the AAHM's annual meeting in Madison, Wis.

Time To Heal provides a history of American medical education from the beginning of the 20th century through the present era of

managed care. The book, published in 1999, also describes the effects of trends in the medical marketplace on teaching, research and patient care and suggests alternatives that would better



Ludmerer

serve the public interest. It was also nominated for a Pulitzer Prize. Ludmerer has written two previous books. His first, a study of eugenics, was published in 1972, while he was completing a junior rotation in pediatrics at Johns Hopkins University. His second, *Learning to Heal: The Development of American Medication Education*, was published in 1985. This book chronicles the creation of America's sys-

tem of medical education and also was nominated for a Pulitzer Prize.

Ludmerer was born in Long Beach, Calif., and earned a bachelor's degree in history and science in 1968 from Harvard University. He then went to Johns Hopkins, where he earned a master's degree in the history of medicine in 1971 and a medical degree in 1973.

He joined Washington University in 1979 as assistant professor of medicine and of history. He was named associate professor of medicine and of history in 1986, and he was promoted to professor of medicine and of history in 1992.

Among many honors, Ludmerer received the Nicholas E. Davies Memorial Award from the American College of Physicians in 1997, the Distinguished Alumnus Award of John Hopkins Uni-

Time to Heal: American Medical Education from the Turn of the Century to the Era of Managed Care provides a history of American medical education from the beginning of the 20th century through the present era of managed care.

versity in 2000, the Daniel Tosteson Award for Leadership in Medical Education from Harvard Medical School in 2001 and the Abraham Flexner Award for Distinguished Service to Medical Education from the Association of American Medical Colleges in 2003.

Ludmerer is president of the AAHM and past president of the American Osler Society. He has been elected a fellow of the American Association for the Advancement of Science and of

the American College of Physicians. He has also been elected to the national honorary medical society Alpha Omega Alpha, the American Academy of Arts and Sciences, the Association of American Physicians and the American Clinical and Climatological Association.

In addition, he has served on the editorial boards of nine professional journals and delivered named lectures at more than 150 educational institutions or professional societies.

University Events

Bachelor of Fine Arts Show • What We Have Learned

"University Events" lists a portion of the activities taking place May 14-26 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibits

Friday, May 14

6-8 p.m. Master of Fine Arts Thesis Exhibition (Part II). Des Lee Gallery, 1627 Washington Ave. 621-8735.

Continuing

School of Art Bachelor of Fine Arts Show. Through May 21. Gallery of Art. 935-4523.

150 years History of Adult Education at Washington University, 1854-2004. Through May 31. January Hall, Rm. 20. 935-4806.

150 years Influence 150: 150 Years of Shaping a City, a Nation, the World. Becker Medical Library. Through May 31. 362-7080.

150 years New Beginnings: The First Decade of the Washington University Medical Campus, 1915-1925. Through May 31. Glaser Gallery, Becker Medical Library, 7th Fl. 362-4236.

Lectures

Friday, May 14

9:15 a.m. Pediatric Grand Rounds. "Congenital Disorders of Glycosylation — An Emerging Area." Stuart Kornfeld, prof. of medicine and of biochemistry & biophysics. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology & Physiology Seminar. "Linking Molecular Motor Proteins to Signaling and Neurodegenerative Disease." Lawrence S.B. Goldstein, prof. of cellular & molecular medicine, U. of Calif., San Diego. McDonnell Medical Sciences Bldg., Rm. 426. 362-3964.

150 years 4 p.m. Sesquicentennial Biology Seminar Series. Joseph Varner Lecture. Ken Keegstra, prof. of biochemistry and molecular biology,

Mich. State U. Rebstock Hall, Rm. 215. 935-6860.

Saturday, May 15

7:30 a.m.-2 p.m. Nuclear Medicine CME Course. "Images to Outcomes IV: Nuclear Cardiology Update." Cost: \$225 for physicians, \$125 for allied health professionals. Tan-Tar-A Resort. To register: 362-6891.

Monday, May 17

Noon. Center for the Study of Nervous System Injury Seminar. Lawrence Eisenman, instructor in neurology. Maternity Bldg., Schwarz Aud. 362-9460.

4 p.m. Immunology Program Research Seminar. "Understanding Memory T Cell Differentiation: Implications for Vaccination." Rafi Ahmed, prof. of microbiology & immunology, Emory U. Eric P. Newman Education Center. 362-2763.

Tuesday, May 18

9 a.m.-noon. Center for Aging Lecture. Annual Friedman Lecture and Center for Aging Update. David Snowdon, prof. of neurology, U. of Ky. Brown Hall, Rm. 100. 286-2441.

4 p.m. Chemistry Seminar. "Chemistry and Biology of Novel Oxidative Crosslink Lesions of DNA." Yinsheng Wang, asst. prof. of analytical chemistry, U. of Calif., Riverside. McMillen Lab., Rm. 311. 935-6530.

Wednesday, May 19

7 a.m.-5:15 p.m. Internal Medicine CME Course. "The Washington Manual Comprehensive Internal Medicine and Board Review Course." (Continues 5:45-7:45 p.m. May 19; 7:30 a.m.-5:15 and 5:45-7:45 p.m. May 20; 7:30 a.m.-5 p.m. and 5:15-5:45 p.m. May 22; and 7:30 a.m.-3:15 p.m. May 23.) Cost: \$945 for physicians, \$745 for allied health professionals, \$200 daily rate. Eric P. Newman Education Center. To register: 362-6891.

Thursday, May 20

4 p.m. Chemistry Seminar. Annual Leopold Markus Lecture. "Discovery, Development and Application of Catalysts for the Synthesis of Defined Polymer Architectures." Geoffrey W. Coates, prof. of chemistry and of chemical biology, Cornell U. Louderman Hall, Rm. 458. 935-6530.

For more information, go online to commencement.wustl.edu.

Wednesday, May 19

7:30 p.m. University College Recognition Ceremony and Reception in Simon Hall Auditorium and Courtyard.

Thursday, May 20

10:30 a.m. Eliot Honors Convocation. Honoring students for academic and leadership achievements. Athletic Complex, Field House.

1:30 p.m. School of Engineering & Applied Science Recognition Ceremony. Athletic Complex, Field House.

4:30 p.m. College of Arts & Sciences Recognition Ceremony. Athletic Complex, Field House.

8 p.m. School of Art Recognition Ceremony. Graham Chapel.

Friday, May 21

8 a.m. Degree Candidates Assemble.

8:30 a.m. Commencement in Brookings Quadrangle.

The following programs begin immediately following Commencement:

College of Arts & Sciences: Reception and diploma distribution in the Sally E. Strain Courtyard, between Monsanto Laboratory and the Psychology Building. Rain location: Athletic

Friday, May 21

9:15 a.m. Pediatric Grand Rounds. "Tay-Sachs, Sickle Cell, and Cystic Fibrosis: Ethnic Identity, Therapeutics, and Genetic Disease in the U.S., Past and Present." Keith A. Wailoo, prof. of history, Rutgers U. Clopton Aud., 4950 Children's Place. 454-6006.

Monday, May 24

8:30 a.m.-4:30 p.m. Center for the Application of Information Technology Two-Day Workshop. "Internal Negotiating Skills for the IT Professional." (Continues 8:30 a.m.-4:30 p.m. May 25.)

Complex, Francis Gymnasium.

University College: Diploma distribution and reception in Women's Building Formal Lounge.

Graduate School of Arts & Sciences: Hooding and recognition ceremony in Edison Theatre. Reception follows in Bowles Plaza. Rain location for reception: Mallinckrodt Student Center, Lower Level Food Court.

School of Architecture: Diploma ceremony, Brookings Drive mall. Reception follows. Rain location and time: Graham Chapel, 3 p.m., with reception following in Givens Hall.

School of Art: Diploma distribution and reception on the Steinberg Hall terrace. Rain location: Steinberg Hall, Gallery of Art.

Olin School of Business: Diploma distribution and reception in the Athletic Complex, Field House. Reception follows in Simon Hall.

School of Engineering & Applied Science: Undergraduate diploma distribution in Lopata Hall, Room 324. Reception follows in Lopata Gallery and Lopata Plaza between Jolley and Cupples II halls.

George Warren Brown School of Social Work: Diploma ceremony in Graham Chapel. Reception follows in the Lucy and Stanley Lopata Courtyard.

Program in Occupational Therapy: Reception in Holmes Lounge. Diploma ceremony follows in Graham Chapel.

The following programs begin at 12:30 p.m.:

Health Administration Program: Diploma ceremony at the Sheraton Clayton Plaza Hotel, Grand Ballroom. Reception immediately following.

Program in Genetic Epidemiology: Hooding and recognition ceremony in McDonnell Medical Sciences Building, Erlanger Auditorium. Reception immediately following in the McDonnell Medical Sciences Building King Center.

School of Law: Diploma ceremony in Brookings Quadrangle. Reception follows in Anheuser-Busch Hall. Rain location: Athletic Complex, Recreational Gymnasium.

The following program begins at 2 p.m.:

Henry Edwin Sever Graduate School of Engineering & Applied Science: Hooding and recognition ceremony in Edison Theatre. Reception follows in the Mallinckrodt Student Center, Lower Level Food Court.

The following programs begin at 3 p.m.:

Olin School of Business: Graduate diploma and awards ceremony in the Athletic Complex, Field House. Reception follows in Simon Hall.

School of Medicine: Commencement recognition ceremony in the St. Louis Marriott Pavilion Hotel, Pavilion Ballroom. Reception follows in the St. Louis Marriott Pavilion Hotel, Hawthorne Ballroom.

Tuesday, May 25

4 p.m. Chemistry Seminar. "What We Have Learned About Heavy Carbenes Through Laser Flash Photolysis Studies." Robin Walsh, prof. of chemistry, U. of Reading, England. McMillen Lab., Rm. 311. 935-6530.

Wednesday, May 26

4 p.m. Chemistry Seminar. "Structure and Reactivity of the Silica Surface: A Solid-State NMR Study." Gary E. Marciel, dept. of chemistry, Colo. State U. McMillen Lab., Rm. 311. 935-6530.

Board

Brauer served as U.S. ambassador to Belgium — from Page 1

Council.

"David Kemper has taken an extraordinary interest in the University and has devoted not only his time, but also his support, for many important initiatives — especially the recent announcement of the naming of the Mildred Lane Kemper Art Museum in honor of his late mother," Wrighton said.

Brauer will become vice chairman after serving on the board for many years. He has been a strong supporter of the University and has been particularly active in supporting the School of Engineering & Applied Science. Most recently, he served as U.S. ambassador to Belgium.

"Steve is one of our hardest-working trustees and a loyal supporter and advocate for quality education," Wrighton said. "He will bring a global perspective to the University's expanding international presence."

In his report to the trustees, Wrighton reviewed the Sesquicentennial year's highlights, noting the successful events that started in September. These included the University's 150th Birthday Party celebration to which the St. Louis community was invited, and the rededication of Olin Library and inauguration of the statue of George Washington, which immediately followed the trustee meeting.

Wrighton mentioned the successful groundbreaking for the Sam Fox Arts Center on April 14 and the announcement of the naming of Mildred Lane Kemper Art Museum.

Wrighton thanked trustee Robert L. Virgil, Ph.D., for chairing the Sesquicentennial Commission, noting that he will march at Commencement May 21 as honorary grand marshal.

He reported on the continuing success of the Campaign for Washington University, which to date has raised well over \$1.4 billion, strongly surpassing its original goal of \$1 billion and its revised goal of \$1.3 billion.

He expressed hope that the campaign will top \$1.5 billion upon its completion June 30. He reminded the trustees that this was the original total of needs expressed in the Project 21 analysis conducted before launching the campaign.

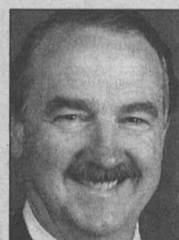
Wrighton concluded his remarks by noting that the varsity athletic teams achieved an overall record for 2003-04 of 198-64-7, earning a .756 winning percentage. Every team finished with a winning record, and 159 student-athletes earned All-University Athletic Association honors, with five being named player of the year and three being named rookie of the year.

He was especially proud to announce that the softball team was to begin NCAA regional tournament play in Pella, Iowa, that day. He also noted that Francis Field will begin to see construction of a new synthetic playing surface.

Sandra B. Marks, director of



McDonnell



Brauer

the University's Supplier Diversity Initiative, was introduced to the trustees by Wrighton. She reported on the successes of the University's effort to sustain and nourish minority businesses in the St. Louis community, to create viable new minority businesses in the region and to increase minority representation in the workplace.

Her report reviewed the University's role in supporting women-owned and minority-owned businesses that do work for the institution.

In other action, the trustees observed a moment of silence and passed a memorial resolution in honor of former Provost and Trustee George E. Pake, who died March 4.

The trustees heard reports from the following committees: nominating, compensation, development, educational policy, honorary degree, Hilltop finance, medical finance, audit and the Alumni Board of Governors.

In addition, reviews of the school year were presented to the trustees by the undergraduate and graduate student representatives — Ryan C. Lawson, Elizabeth "SiSi" Marti, David E. Taylor and Xiuxia Du. Their reports were followed by the faculty rep-

About the new trustees

Cynthia J. Brinkley is president-Missouri of SBC Southwestern Bell Telephone Co. She is responsible for all regulatory, legislative, governmental and external affairs activities in Missouri, a position she has held since July 2002.

She previously served as president of SBC Arkansas, where she was named the state's business leader of the year in 2002. Brinkley joined the company in 1986.

She is a graduate of the University of Missouri with a bachelor's degree in journalism, and of Truman State University with a bachelor's degree in political science.

Jerald L. Kent is president and chief executive officer of Cequel III, a broadband telecommunications management company founded in 2002. A 20-year veteran of the cable television industry, he began his career as an officer of Cencom Cable Associates Inc., and then co-founded Charter Communications in 1993.

Prior to founding Cequel, he was president and chief executive officer of Charter Communications. Under his leadership, Charter grew to some 7 million customers as the nation's fourth-largest cable company.

A graduate of the Olin School of Business, he is the recipient of a Distinguished Alumni Award and serves on the executive committee of the University's Alumni Association.

Lawrence (Larry) E. Thomas began working with Edward Jones in 1977 as an intern while attending Washington University. He spent most of his time in the securities research and branch administration departments.

Upon graduation, he joined Edward Jones' corporate bond trading department, and within five years became a principal of the company. He has held many important positions within the firm.

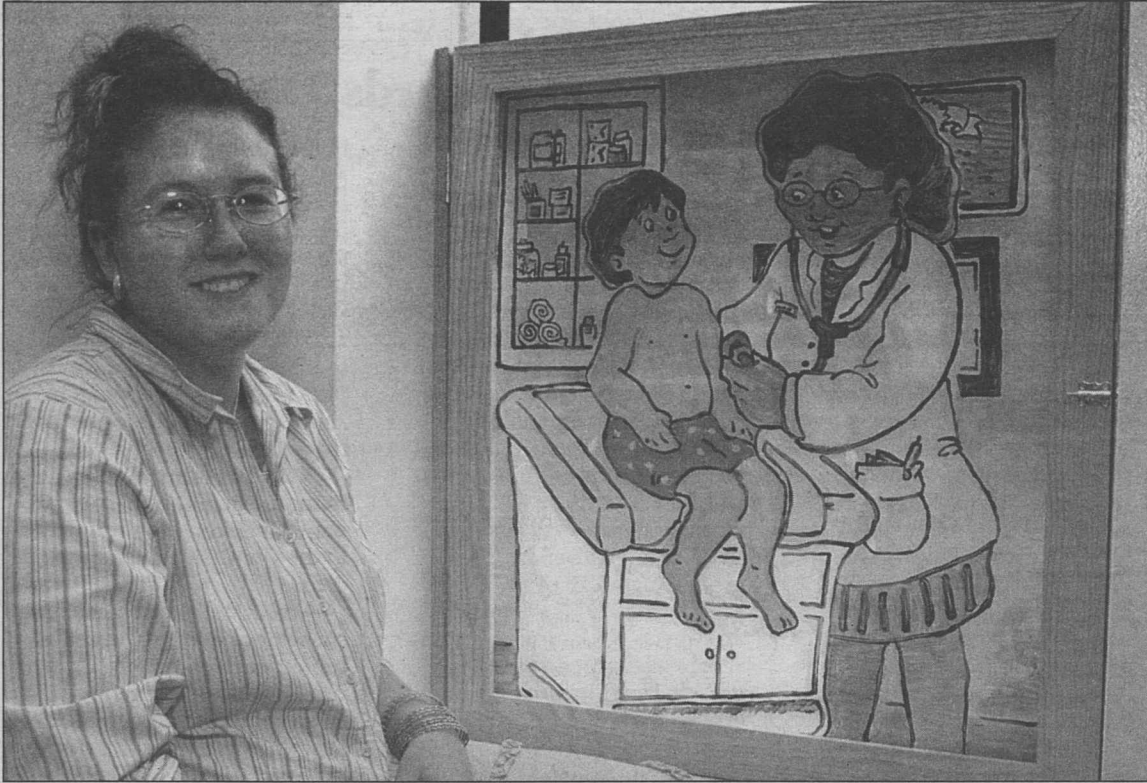
In January, he rejoined its corporate bond department, where he is responsible for distributing the group's newly issued corporate notes.

He serves on the Olin School of Business' national council. In addition to his undergraduate degree from the Olin School, he has earned master of business administration degrees from Northwestern and Lindenwood universities.

He also is a graduate of the Securities Industry Institute at the University of Pennsylvania's Wharton School of Business.

representative review of the year, delivered by Jody O'Sullivan,

Ph.D., chair of the Faculty Senate and the Faculty Senate Council.



Victoria Sher, a senior ceramics major in the School of Art, shows off one of three hand-painted windows she created for patient examination rooms at Grace Hill's Souldard Neighborhood Health Center.

School of Art students create works for Souldard health clinic

BY LIAM OTTEN

Over the past year, eight ceramics and sculpture majors in the School of Art have designed, proposed, constructed and installed a series of site-specific artworks for the Souldard Neighborhood Health Center, 2028 S. 12th St.

The clinic, part of the Grace Hill Neighborhood Health Centers Inc., provides primary and preventive health care to low-income and uninsured residents. The works of art, which range from stained-glass windows and ceramic mosaics to custom furniture and Braille signage, were formally dedicated May 7.

"These are major projects, major pieces," said Ron Fondaw, professor of art and head of the ceramics major area, who led a similar initiative at Grace Hill's South Health Center, 3400 Jefferson Ave., in 2001-02. Both Grace Hill projects, he explained, are part of the ceramics program's "ongoing commitment to public practice and making artworks that are contextualized by public space."

Students began working with the Souldard site in spring 2003, when nurse supervisor Daniel Orlet invited them to tour the facility and meet with patients and staff. Projects were largely conceptualized over the summer, then refined in early fall and presented for approval to Grace Hill administrators in October.

"We had a few minor suggestions about making things kid-safe, that sort of thing," Orlet said. "Basically, we just reminded the students about the kind of environment they'd be putting the

work in."

In the end, all eight proposals submitted were given the green light. Construction and fabrication took place in late fall and throughout the spring, with materials and equipment donated by the School of Art and local businesses.

"This is not the clean, white gallery box," Fondaw pointed out. "It's a working environment."

"The challenge is to create something that functions aesthetically while remaining sensitive to the variety of people who use the space. And I think each student has done that in their own way."

For example, senior Erik Peterson addressed his work specifically to younger patients, fashioning a pair of large, cartoon-like animal sculptures.

The first is a friendly, yellow-and-orange ceramic lion who smiles reassuringly from a waiting room wall, a clock cradled in his belly. The second is a 30-inch-tall monkey grinning down from a ceramic branch suspended in the corner of a patient examination room.

"They are happy and fun and make people laugh," Peterson said. The point, he added, was simply to make kids' time at the clinic "a little less scary, less stressful, less sterile."

Senior Margaret Harris aimed her work — a group of semi-circular clay tiles installed on the clinic's front facade — at another audience: the visually impaired. Located beneath a 10-foot-long plate-glass window, the tiles at first glance appear to be a kind of contemporary twist on the old brick building's existing architectural embellishment.

Upon closer inspection, howev-

er, one realizes that they are in fact a Braille rendering of a quote (also printed on the window above) by the ancient Greek physician Hippocrates: "Wherever the art of medicine is loved, also is there love of humanity."

Senior Lauren Nagle and master's candidate Connie Williams also engaged architectural elements, enlivening an otherwise bland waiting room by wrapping a pair of ceramic mosaics around two steel support columns. The swirling, abstract designs, built largely of triangular shapes, are also reprised in Nagle's complimentary quartet of stained glass windows.

"Our goal was to enhance the room itself, instead of adding extra clutter," Williams said. "The new colored light and patterns created in the room help change the clinical feel of the waiting area into a warm and exciting place."

Senior Victoria Sher also focused on windows and light, installing in three adjacent examination rooms a trio of frosted-glass panes, each bearing a hand-painted image.

Rendered in glowing, transparent enamel colors, Sher's windows — which depict a doctor examining a child, a medical diagram of a fetus in-utero and an abstracted chest X-ray — flood the rooms in natural sunlight; yet, thanks to a cleverly conceived framing system, also allow fresh air to circulate without sacrificing privacy.

Other projects include window treatments by Laura Fry and Melissa Scott; and Katy Scoggin's stuffed vinyl seating that was inspired by the stomach and pancreas.

Sports

Softball team ends year with 33-5 mark

The No. 2 softball team was eliminated from the NCAA Division III Tournament in a 4-3 loss to No. 3 Central College in the loser's bracket of the Midwest Regional May 9 in Pella, Iowa.

Central freshman Stef Miller recorded her first hit in four postseason games, a grand slam to left field in the top of the fifth inning, as Central advanced to the championship game against No. 1 University of St. Thomas.

The Bears and Dutch also met May 7 on the first day of the regional, when Central recorded a 3-0 win. WUSTL responded May 8 with a pair of wins against Maryville University and the University of Wisconsin-Superior. The Bears defeated the Saints in the first game Saturday, 6-4, then edged UW-Superior, 1-0, when sophomore Stephanie Sheppard connected on an RBI single in the top of the seventh.

WUSTL finished the season with a school-record 33-5 mark.

Sports shorts

The **baseball** team swept Greenville College in a double-header May 4 at Kelly Field. The Bears took Game 1, 10-5, behind senior Steve Schmidt's seventh complete game. Sophomore Ryan Corning sparked the Bears' offense in a 19-4 win in Game 2, posting five RBIs and three runs scored. Schmidt allowed just five hits and struck out five while giving up two earned runs. He also went 1 for 3 at the plate and scored a run, closing the season with a .408 batting average and a 4.41 ERA. The Bears scored early and

often in Game 2, and senior Adam Cowley pitched five strong innings for the win. After Greenville errors allowed two unearned runs in the first, the Bears added another four in the second. Washington U. extended its lead to 15-0 in the fourth. The teams traded four-run innings in the top of the fifth and the bottom of the sixth to round out the scoring. Cowley gave up five hits and four runs and struck out six batters in the final game of his career.

Washington U.'s 18-17 overall record gives it a winning mark for the sixth consecutive season.

The **track and field** team competed at the Billy Hayes Invitational May 8-9 in Bloomington, Ind. Though no team scores were kept, WUSTL turned in a number of impressive individual performances, highlighted by junior Lance Moen's showing in the 400-meter run. Moen clocked a school- and University Athletic Association-best time of 48.35. Moreover, the time provisionally qualified him for the NCAA Outdoor Championships, which are slated for May 27-29 at Millikin University.

On the women's side, junior Hallie Hutchens continued her progress in the hurdles. Hutchens posted a time of 14.64 in the 100-meter event, matching her season-best time that she recorded at the UAA Championships in late April. Sophomore Andrea Moreland also registered a season-best time in the 800 with a mark of 2:17.48, while senior Lindsey Clark-Ryan placed third in the triple jump with a leap of 11.15 meters (36 feet, 7 inches).

Campus Watch

The following incidents were reported to University Police **May 5-11**. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

May 5

10:38 a.m. — A staff member reported that a number of checks were stolen from her desk drawer in Simon Hall sometime between 3:30 p.m. April 29 and 4 p.m. April 30.

4 p.m. — A staff member reported that an unknown person had keyed her car while it was parked at the east end of Parking Lot No. 2, just outside of Bixby Hall. Key marks were found on the rear passenger-side quarter panel and front passenger-side quarter panel. The incident occurred sometime between 6:30 a.m.-4 p.m.

May 8

10:57 p.m. — A person reported that an unknown person might have been trying to get into her residence in the Millbrook Apartments in the past seven days. Several screens on the windows had been pried open.

May 11

10:45 a.m. — A student reported that an unknown person entered his room in Beaumont Residence Hall and stole a laptop computer.

In addition, University Police responded to for auto accidents, two lost articles and one report each of larceny and harassment.

Distinguished Visiting Scholars Program seeks candidates

BY ANDY CLENDENEN

All college campuses strive for diversity among students, faculty and staff.

One of WUSTL's programs aimed at promoting diversity among the faculty turned 6 years old this spring.

The Distinguished Visiting Scholars Program was instituted in 1998 as part of an effort to increase the representation of minority scholars on the Hilltop Campus. The program invites individuals to campus who have distinguished themselves as leaders or potential leaders in their fields, whether the arts, academia, business or other disciplines.

Directing the program is Gerhild Scholz Williams, Ph.D.,

the Barbara Schaps Thomas and David M. Thomas Professor in the Humanities, associate vice chancellor and special assistant to the chancellor for academic affairs.

"The program was begun as part of an effort to support WUSTL's efforts at diversifying the faculty; to afford students the opportunity to meet with distinguished minority faculty from other universities and colleges; to give the distinguished faculty visitor an opportunity to meet WUSTL's students and faculty and to recommend WUSTL to their students and faculty colleagues," said Williams, who also chairs the Department of Germanic Languages and Literatures in Arts & Sciences.

During their stay, scholars participate in the intellectual life of

the campus by teaching seminars, giving lectures and interacting with faculty and students, particularly undergraduates.

Williams meets with each scholar near the end of their stay to elicit comments and suggestions to continue to increase the effectiveness of the program.

Each spring, information is sent to departments and schools, encouraging them in their efforts to identify and to invite distinguished minority colleagues to campus.

Inquiries about visits, as well as names and resumes of suitable candidates, should be forwarded to Williams (Campus Box 1080; gerhildwilliams@wustl.edu) for consideration at least one semester in advance of the planned visit.

Record

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Washington University in St. Louis

Academy

Phillips has authored seven poetry collections — from Page 1

examine the structures of intermediates that arise during folding and is exploring a number of different protein systems. They include intestinal fatty acid binding protein, which is involved in fatty acid metabolism, and the enzyme dihydrofolate reductase, a target for a number of anticancer and antibacterial drugs.

Frieden's group has also made important discoveries about the mechanism by which bacterial chaperones help certain proteins refold. He also investigates the relationships between protein structure and function and the catalytic mechanisms of certain enzymes.

Frieden came to the School of Medicine as a postdoctoral fellow in 1955 and has been on the faculty since 1957. He was promoted to professor of biological chemistry in 1967 and became the Wittcoff Professor in 2000.

He was interim head of the Department of Biochemistry from 1986-89 and director of the M.D./Ph.D. program from 1986-1991.

In 1988, Frieden was elected to the National Academy of Sciences and selected as a fellow of the American Association for the Advancement of Science.

Gordon, who leads the Department of Molecular Biology and Pharmacology, was the first to raise normal and genetically engineered mice and zebrafish under germ-free conditions to characterize the genomic foundations of symbiotic relationships between these animals and microorganisms living in their intestines.

By systematically colonizing these "living test tubes" with either a single type or a defined collection of gut microbes at various points in development, his team has begun to unravel the contributions of human gut microbes to postnatal development and adult physiology.

Gordon's group sequenced and annotated *Bacteroides thetaio-taomicron*, providing the first view of the genome of a major member

Olin School presents Distinguished Alumni Awards, Dean's Medal

BY ROBERT BATTERSON

The Olin School of Business honored five individuals with Distinguished Alumni Awards at its 18th annual Distinguished Alumni Dinner May 5 at The Ritz-Carlton in Clayton.

The school also presented the Dean's Medal to Art and Marge McWilliams.

Distinguished Alumni Awards were presented to C. Donald Dorsey, Eugene M. O'Neill, Sandra A. VanTrease, Robert L. Virgil and A. Greig Woodring.

Dorsey, retired executive vice president of PETSMART Inc., earned a bachelor of science in business administration in 1964.

He retired in 1999 and is an investor for development-stage retail and consumer-related companies, helping them to develop and execute real-estate strategies, raise capital and manage growth.

He is a business adviser for Ultra Salon, Cosmetics & Fragrance Inc. and Five Below Inc., a startup retail dollar store for teens. He also is a founding director of Towne Bank of Arizona.

O'Neill, retired chairman, president and chief executive officer of General Grocer Co., earned a bachelor of science in business administration in 1949.

He was president of General Grocer from 1960 until 1983, when, as the 10th-largest privately owned company in Missouri, it was sold. General Grocer became well-known for developing companies with innovative retail formats, including Save-a-Lot Ltd. and Shop 'N Save Warehouse Food Stores.

In 1983, O'Neill founded Tyben Consulting Co. For the next 15 years, he worked with mergers and acquisitions of food distributors throughout the country.

VanTrease, president and chief executive officer of UNICARE, earned a master of business administration degree in 1992.

In 2002, she was named the first president of UNICARE, a national life- and health-insurance company with more than \$2 billion in revenues, providing a comprehensive array of health-care plans and specialty services to more than 1.7 million members.

VanTrease also served as pres-

ident and chief executive officer of RightCHOICE, where she helped the company generate premium revenue growth and improve service while lowering overhead in one of the most competitive markets in the country.

Virgil, Ph.D., a limited partner in Edward Jones, earned a master of business administration degree and a doctorate in business administration in 1960 and 1967, respectively.

After a 35-year career at Washington University, where he served as dean of the Olin School from 1977-1993 and as executive vice chancellor for university relations, he accepted a new challenge by becoming a general partner in Edward Jones, with responsibility for management development.

In the past decade, Edward Jones has more than tripled in size, serving nearly 6 million customers in the United States, Canada and the United Kingdom.

Woodring, president and chief executive officer of Reinsurance Group of America (RGA), earned a master of business administration degree in 1989.

RGA has subsidiaries or

branch offices in 14 countries and is the recognized leader in the global life-reinsurance industry, with more than \$1.3 trillion of life insurance in force and assets of more than \$12 billion.

The company was named to the *Forbes* 400 Platinum list of the Best Big Companies in America for the third consecutive year.

Art and Marge McWilliams are St. Louis natives and share an abiding commitment to the University and its students.

Art McWilliams earned a bachelor of business administration degree from the University in 1949. Marge McWilliams earned a bachelor of business administration degree from Saint Louis University.

As scholarship sponsors at the Olin School, the McWilliamses set an extraordinary standard, sponsoring three endowed and two annual scholarships and providing leadership in attracting vital support for the school and its students.

They also take a close interest in each of their scholarship students and offer personal encouragement that often lasts far beyond graduation.

of our intestinal bacterial community. They are currently sequencing the genomes of other members of *Bacteroides*, which collectively comprise up to a quarter of the total bacterial population of the adult human intestine.

Gordon joined the University faculty in 1981 after completing clinical training in internal medicine and gastroenterology and serving as a research associate in the Laboratory of Biochemistry at the National Cancer Institute.

In 1991, Gordon became the Alumni Professor and head of molecular biology and pharmacology. From 1994-2003, he also served as director of the Division of Biology and Biomedical Sciences.

Gordon was elected to the National Academy of Sciences in 2001.

McDonnell succeeded Chancellor Emeritus William H. Danforth as chairman of the Board of Trustees in 1999.

McDonnell was first elected a trustee in 1976. He served two terms on the executive committee (1982-88 and 1995-present) and was named vice chair in 1995. He held various board leadership positions, including chair of the Student Affairs Committee (1980-82) and chair of the Investments Committee (1982-88).

He began his career at McDonnell Douglas Corp. in 1962 as a strength engineer and held a number of positions in the organization. He was elected its president in 1980 and was named chairman and chief executive officer in 1988, a position he held until September 1994.

As chairman of the corpora-

tion, he successfully led McDonnell Douglas through the early 1990s, when the U.S. defense budget and aerospace markets were shrinking dramatically, and he oversaw the merger of McDonnell Douglas with Boeing to create the nation's largest, broadest and strongest aerospace company.

McDonnell is a life member of the board of trustees of the St. Louis Science Center and is a member of the boards of directors of Boeing, Zoltek Cos., the Donald Danforth Plant Science Center, BJC HealthCare and Barnes-Jewish Hospital.

Phillips is the highly acclaimed author of seven collections of poetry.

His first book, *In the Blood*, won the 1992 Samuel French Morse Poetry Prize and was heralded as the work of an outstanding newcomer in the field of contemporary poetry.

His other books are:

- *Cortege* (1995), a finalist for both the National Book Critics Circle Award and the Lambda Literary Award in Poetry;
- *From the Devotions* (1998), a finalist for the National Book Award;
- *Pastoral* (2000), winner of the Lambda Literary Award;
- *The Tether*, (2001), winner of the prestigious Kingsley Tufts Poetry Award;
- *Rock Harbor* (2002); and
- *The Rest of Love: Poems*, pub-

lished in February.

Phillips has had two additional books published this academic year: a translation of Sophocles' *Philoctetes* in September, and a collection titled *Coin of the Realm: Essays on the Life and Art of Poetry*, published this month.

Phillips is the recipient of, among others, a literature award from the American Academy of Arts and Letters, a Guggenheim Fellowship, the Witter Bynner Foundation Fellowship from the Library of Congress, two Pushcart Prizes and the Academy of American Poets Prize.

His poems, essays and translations have appeared in such journals as *The Nation*, *The Paris Review* and *The Yale Review*, as well as in anthologies, including *Best American Poetry*, *The Best of the Best American Poetry 1989-1998* and *The New Bread Loaf Anthology of Contemporary American Poets*.

John Adams, James Bowdoin, John Hancock and other scholar-patriots founded the American Academy of Arts and Sciences in 1780 "to cultivate every art and science which may tend to advance the interest, honor, dignity and happiness of a free, independent and virtuous people."

The academy will welcome this year's new fellows and foreign honorary members at its annual induction ceremony in October at its headquarters in Cambridge, Mass.

Gene

Results 'absolutely flabbergasted' biologists — from Page 1

structures that anchor them on the surfaces of cells, are complex. Scientists estimate that cells use at least 250 proteins to build cilia and an additional 150 for basal bodies.

Studying algae allows Dutcher's group to isolate and manipulate cilia more easily. Simpler life forms like *Chlamydomonas* often have genes for many basic cellular structures and functions that were wholly or partially preserved through the evolutionary development of more complex life forms. This means genes in the alga that help build cilia often have matches in the human genetic code that contribute to cilia construction.

Although evolution generally tends to preserve genes for basic functions that work well, exceptions have occurred during major environmental shifts. Dutcher took advantage of one of these exceptions to set up her comparison: Plants discarded their cilia when they left the ocean for land.

"That meant we could first have the computer look for all the gene matches between the alga and humans," Dutcher said. "Next, we brought in the genetic code for *Arabidopsis*, a land plant, and eliminated any matches we found, assuming that those

matches are genes for basic cell structures and function that are not involved in the creation of cilia."

The comparison between genetic codes of the human and the alga produced 4,348 "fairly good" matches, according to Dutcher.

In that pool of common genes, the genetic code of *Arabidopsis*, sequenced by the University's Genome Sequencing Center (GSC) and Cold Spring Harbor Laboratory in 2000, has 3,660 matching genes. That left 688 genes. Comparisons with the genetic codes of the fruit fly, mouse and sea squirt, an aquatic animal, narrowed the results down to 200-300 genes.

Dutcher applied several tests to check the accuracy of the results.

"For example, we found the comparison had highlighted 92 percent of the 62 genes that we already knew were real components of flagella and basal bodies," Dutcher said. "This absolutely flabbergasted the computational biologists who helped us run the comparison. They thought we'd get more noise."

Dutcher also found that the comparison had singled out several genes already linked to polycystic kidney disease and other conditions that affect proteins in cilia.

Intrigued by the possibility of using the results to identify new disease genes, she contacted Nicholas Katsanis, Ph.D., assistant professor in the McKusick-Nathans Institute of Genetic Medicine at

Johns Hopkins University.

Katsanis studies BBS, which is caused by problems in cilia. Mutations in six genes already had been shown to contribute to BBS or conditions like it; a seventh was thought to be in a region on chromosome 2, but the area was very large and contained nearly 230 genes.

Dutcher's analysis had highlighted two genes in that region, and when Katsanis' group sequenced the genes in families of patients with the condition, they found several families had abnormalities in one of the genes and named it *BBS5*.

Dutcher plans to study additional genes identified by the comparison.

"It's amazing how many of these genes have completely unknown functions," Dutcher said.

She also plans further computerized comparisons of genetic codes.

"Humans have two kinds of cilia — motile cilia, which create motion, and non-motile cilia, which respond to motion," she said. "The microscopic worm *C. elegans* only has non-motile cilia, so if we were to take our results from this study and eliminate all the genes that have a match in the genetic code of *C. elegans*, that might let us highlight genes for proteins that create and control the movements of cilia."

The GSC, working in collaboration with England's Sanger Center, completed sequencing of the genetic code of *C. elegans* in 1998.

Goldwater

Senior Johnson wins Mellon fellowship — from Page 1

ships adviser in Arts & Sciences. "It's even more unusual for all four winners to be sophomores."

The University's Goldwater winners are Kristin Bibee, biology major; Aaron Mertz, physics; Sonal Singhal, biology and anthropology; and James Wang, biology and neurobiology.

"The Goldwater is generally considered to be, if not the most prestigious, then certainly one of the most prestigious awards for undergraduates planning careers in the sciences, engineering or math," Killen said.

The University has had 21 Goldwater Scholars since 1997.

Sophomore **Matthew Klasen** received an honorable mention from the Morris K. Udall Scholarship Foundation. Udall scholarships support students committed to environmental fields and Native American students with interest in healthcare and tribal policy.

Senior **Jessica Johnson** received an Andrew W. Mellon Fellowship, a competitive award that helps promising first-year doctoral students prepare for careers of teaching and scholarship in humanistic disciplines. It covers tuition and fees in first year of graduate study and includes a stipend of \$17,500.

In November, Arts & Sciences seniors **Bethany Ehmann** and **Allison Gilmore** were announced as Rhodes Scholars.

Notables

Arts & Sciences to recognize achievements of 6 alums

BY SUSAN KILLENBERG MCGINN

Arts & Sciences will recognize the achievements of six alumni at 4 p.m. May 21 in the Arts & Sciences Laboratory Science Building.

Edward S. Macias, Ph.D., executive vice chancellor, dean of Arts & Sciences and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, will present Distinguished Alumni Awards to five individuals who have attained distinction in their academic or professional careers and have demonstrated service to their communities and the University.

David T. Blasingame, vice chancellor for alumni and development programs, A.B. '69, M.B.A. '71, will receive the Dean's Medal for his support and dedication to Arts & Sciences.

The five other alumni being honored are: Michael Isikoff, A.B. '74; Harry S. Jonas, M.D., A.B. '49, M.D. '52, House Staff '56; Constance Kling Levy, A.B. '52, M.A.Ed. '74; Jerome T. Loeb, M.A. '64; and Sally K. Silvers, A.B. '69.

Blasingame is known to more than 80,000 donors, hundreds of volunteers, the entire campus community and educational institutions around the world as the leader of the Campaign for Washington University, which has generated nearly \$1.5 billion, including more than \$185 million to Arts & Sciences and University College.

He majored in psychology, using his math abilities in economics electives, and concentrated in marketing in the Olin School's master of business administration program.

Isikoff is an award-winning investigative correspondent for *Newsweek*. During 30 years of reporting, he has mined for facts behind Whitewater, Iran-Contra, the Persian Gulf War, 1996 Democratic campaign contributions and Enron.

A Pulitzer Prize finalist in 1991 for articles about gun trafficking and violence, he has received numerous other honors, including the Gerald R. Ford Journalism Prize for Reporting on the Presidency for exclusive coverage of the Clin-

ton scandal.

Jonas had a thriving obstetrics practice in Independence, Mo., from 1956-1974 before becoming in 1975 the first chair of the OB-GYN department in the new medical center at the University of Missouri-Kansas City (UMKC).

In 1978, he became dean of UMKC's medical school, serving in that position until 1987.

After leaving UMKC, he served as assistant vice president of medical education for the American Medical Association and secretary of the Liaison Committee on Medical Education, the agency responsible for accreditation of U.S. and Canadian medical schools.

Levy is an award-winning children's poet. Her books include *Splash, Poems of Our Watery World* (2002) and *A Crack in the Clouds* (1998), both Lee Bennett Hopkins Award winners.

Her first picture book, *The Story of Red Rubber Ball*, was published this month and is a 2004 Junior Library Guild Selection.

Levy has taught first and second grades, children's literature in college and poetry writing through the Missouri Arts Council.

Loeb retired as chairman of the May Department Stores Co. in 2001. He joined the company's Famous-Barr division in 1964 and held several positions at the corporate office and at Hecht's, the department store division based in Washington, D.C.

In 1981, he was named executive vice president and chief financial officer for the company, elected to the board of directors in 1984, promoted to president in 1993 and named chairman in 1998.

He co-authored *Why Can't We Get Anything Done Around Here?* and is an adjunct professor of marketing in the Olin

School of Business.

Silvers, whose parents were both University alumni, majored in education and psychology and became a special-education teacher before moving to Columbia, Mo.

After earning a master's degree in special education at the University of Missouri, she taught for five years in the university's special education department.

Her volunteer work includes a three-year term as national chair of Washington University's Alumni and Parents Admission Program (APAP), considered one of the University's highest priorities.

She and her husband, Robert, A.B. '66, neurology residency '74, endowed the first APAP scholarship in memory of her parents.

Arts & Sciences presents staff awards

BY SUSAN KILLENBERG MCGINN

To recognize the creative contributions and exemplary performance of staff, Arts & Sciences presented 12 of its own with the Arts & Sciences 2003-04 Outstanding Staff Award during a ceremony and reception April 6 in the Women's Building Formal Lounge.

Edward S. Macias, Ph.D., dean of Arts & Sciences, executive vice chancellor and the Barbara and David Thomas Distinguished Professor in Arts & Sciences, presents the awards annually to non-teaching personnel who have contributed significantly to the effectiveness of the teaching, advising, counseling and research efforts in Arts & Sciences.

In addition, Macias presents the Dean's Award to a University staff member housed outside of Arts & Sciences who has made key contributions to the school.

Sue Hosack, director of the Office of Student Records, received the Dean's Award for her support, service and commitment to the academic enterprise.

All honorees received a framed award and a \$250 gift certificate to the Saint Louis Galleria.

The following are recipients of the Arts & Sciences Outstanding Staff Award:

- Helene Abrams, administrative assistant in the Department of Romance Languages and Literatures;
- Marilyn Broughton, administrative assistant in the Department of Education;
- Elizabeth Fyfe, administrative assistant in the Department of Germanic Languages and Literatures;
- Rich Heuermann, administrative officer of the Department of Earth and Planetary Sciences;
- Toni Loomis, administrative

secretary in International and Area Studies;

- Phyllis Marlo, grants and accounts specialist in the Department of Chemistry;
 - Dorothy Negri, administrative secretary in the Department of English;
 - Raye Riggins, department secretary in African and Afro-American Studies;
 - Hannelore Spence, administrative associate in the Department of Germanic Languages and Literatures;
 - Frances Thuet, computer systems manager for the Department of Biology;
 - Adele Tuchler, administrative assistant in African and Afro-American Studies; and
 - Lori Turner, administrative aide in Film and Media Studies.
- To read more about the award recipients, go online to arts.wustl.edu and click on "Arts & Sciences Outstanding Staff Awards 2003-04."

University College doles out first alumni awards

BY ANDY CLENDENNEN

University College in Arts & Sciences has selected its first three alumni award recipients.

Lois Judevine Blackwell, Marion Horstman and Robert M. Senior, M.D., were honored in a May 13 ceremony for their outstanding records as professionals, and for service to the community and to the University.

Blackwell founded the Judevine Center for Autism in Olivette, Mo.

In the 33 years she served as its president, the center, which arose from the University's Social Exchange Lab, became a pioneering source of support, guidance and therapy to thousands of Missouri families.

In the 1960s, Blackwell studied anthropology and psychology at University College while employed full-time as an assistant in the Social Exchange Lab.

Horstman, while support-

ing her family, completed a bachelor's of science in business accounting at University College in 1966. She then obtained a position as an auditor with the U.S. Department of the Treasury, where she worked until her retirement in 1988.

A former vice chair of the Eliot Society Membership Committee and former chair of the annual phone-a-thon fundraising campaign, Horstman also is a member of the Washington University Association, the Dean's Advisory Board and the University Planned Giving Committee.

Senior is an expert on lung disease and cell biology.

The director of pulmonary and critical care at the former Jewish Hospital from 1969-1996, he is the Dorothy R. and Hubert C. Moog Professor in Pulmonary Medicine and professor of cell biology and physiology in the School of Medicine.

He earned a master of liberal arts degree from University College in 1997.

Biology awards Spector, Stalker prizes

BY TONY FITZPATRICK

Jonathan Hron and Daniel Perrault have been named winners of the biology department's 2004 Spector Prize, which is awarded each year to one or more students for their original research leading to an honors thesis.

Laura Ernst and Omar Young will share the department's 2004 Stalker Prize, awarded to a graduating senior whose college career is distinguished by scholarship, service and breadth of interest.

The Department of Biology in Arts & Sciences began presenting the annual Spector Prize in 1974 in memory of Marion Smith Spector, a 1938 graduate of the University who studied zoology under the late Professor Viktor Hamburger.

Hron's research on the regulation of immunoglobulin synthesis was done in the laboratory of Stanford Peng, M.D., Ph.D., assistant professor of medicine in the Department of Internal Medicine.

Perrault's research at the Tyson Research Center was done

with Jamie Kneitel, Ph.D., post-doctoral researcher in biology. He did a study of disruption in ecosystems and their subsequent susceptibility to invasion by foreign species.

Hron and Perrault are both headed to medical school in the fall.

The Stalker Prize is given in honor of Professor Harrison Stalker, who was an evolutionary biology, geneticist and dedicated teacher who took exceptional interest in the arts. Ernst and Young have done publication-quality biological research.

Ernst worked in the laboratory of Barbara Kunkel, Ph.D., associate professor of biology. Young worked in the laboratory of Jason Weber, Ph.D., assistant professor of medicine.

Both students also have strong humanities and liberal-arts credentials. Ernst is a drama/biology double major who has played lead actress in several plays; Young is a French/biology double major who spent a year abroad in France and also sings in the cappella group "After Dark."



Breakfast for dinner Junior Christopher "Xopher" Pollard gets a helping of bacon and eggs from Jill Carnaghi, Ph.D., director of campus life and assistant vice chancellor for students, during Midnight Breakfast May 6 in Wohl Student Center. Looking on are (from left) the Rev. Gary Braun, director of the Catholic Student Center; Kimberly Lempfert, associate director of student activities; and Justin X. Carroll, assistant vice chancellor for students and dean of students. The late-night breakfast provided students with a fun way to take a break from studying for final exams.

Washington People

While Elzbieta Sklodowska's research and teaching interests focus on the Spanish language and the history and culture of Cuba and the Caribbean, her role as chair of the Department of Romance Languages and Literatures in Arts & Sciences takes on a much broader appeal.

"Working at the intersection of the three languages housed in one department — French, Italian and Spanish — can be both challenging and invigorating," said Sklodowska, Ph.D., also a professor of Spanish in Romance languages and literatures. "Every day, I learn valuable lessons from the interaction between diverse cultures, experiences and perspectives.

"As a fledgling chair, I have benefited enormously from the practical advice and guidance of my predecessor, Nina Davis, who had chaired the department for six years. I think that the transition has been quite smooth, thanks to the collegiality and synergy of our department."

Her colleagues think she's



Elzbieta Sklodowska, Ph.D. (right), professor and chair of Romance languages and literatures in Arts & Sciences, discusses a research project with Vicky Albornoz, lecturer in Spanish.

'Exceptional leadership'

Elzbieta Sklodowska has defined the future vision of the Department of Romance Languages and Literatures

doing a wonderful job.

"Elzbieta is an outstanding chair of Romance languages and literatures who leads by her own fine example," said Harriet A. Stone, Ph.D., professor of French. "She is dedicated, principled and fair-minded.

"She has earned the respect of all of her colleagues for her outstanding successes in her research, teaching and administration. We are fortunate to have her."

Sklodowska was born in Poland and speaks fluent Polish, Spanish and English. She went to high school in Warsaw and earned a master's degree in Spanish with highest distinction from the University of Warsaw in 1979.

She then came to Washington University, where she earned a doctorate in Spanish in 1983. She returned to Poland to accept an assistant professor position at her alma mater.

She came back to the United States in the late 1980s, first for a postdoctoral Mellon Fellowship at the University of Pittsburgh and then for a research fellowship at the National Humanities Center in North Carolina.

In 1991, she was awarded the *habilitacja*, a postdoctoral qualification granted in many European countries.

She joined the Washington

University faculty in 1991 as associate professor and was named full professor in 1997. In 2003, she was named the inaugural holder of the Raymond R. Randolph, Lee Schroth Randolph, Paula Schroth Krummenacher, and William R. Randolph Professorship.

Sklodowska works with some 40 full-time faculty and 30 graduate students. The number of undergraduate majors and minors in three language sections is well over 200.

Sklodowska attributes the health of the

programs in French, Italian and Spanish to the hard work and dedication of the faculty.

"We have some of the best-regarded teachers on campus," she said. "Our faculty and teaching assistants are attuned to pedagogical and technological innovations of our times, but they also remain focused on skills and values traditionally associated with the humanities.

"The presence of our faculty extends beyond departmental boundaries, into comparative literature, International and Area Studies, Women and Gender Studies, Film and Media Studies and into the local communities.

"Thanks to the initiative and dedication of my colleague Virginia Braxs, our outreach programs for the local Hispanic community have flourished in recent years."

Sklodowska's own efforts have also contributed to the success of the department.

"Elzbieta has shown exceptional leadership in running the department," said John Garganigo, Ph.D., professor of Spanish. "She has set the department on a new course by defining its future vision. She leads by example as she continues to be a superb scholar and most able administrator.

"As a human being, Elzbieta has no equals. Washington University is fortunate to count her among its ranks."

The other reason for the popularity of language studies is the students.

"In my 14 years at Washington University, I have witnessed a growing awareness of the importance of foreign languages and cultures," Sklodowska said. "Our undergraduates are more cosmopolitan, more interested in travel and more open to exploring the world. At an institutional level, the University has responded very well to these changes, by restructuring and expanding a variety of study abroad programs."

Sklodowska's main area of study and research is Spanish-American culture and literature. Her regional focus is on the Caribbean and Cuba, and she works extensively on contemporary Cuban literature and culture.

With the support of James E. McLeod, vice chancellor for students and dean of the College of Arts & Sciences, and in collabora-

tion with her colleague, Joseph Schraibman, Ph.D., professor of Romance languages and literatures, she developed a "Focus" seminar on Cuba, which, in its third year, has been very popular with students.

"This course covers a vast array of topics related to contemporary Cuba, including political censorship, ethnicity and religious practices," Sklodowska said. "An added and highly significant benefit of this course is a study trip to Havana, which provides first-hand experience of Cuban everyday life.

"The visit is structured around lectures by invited scholars, writers and artists, and it includes film screenings, field trips, concerts and art exhibits. It is a truly transforming experience for the students."

She decided to launch the program because as an undergraduate, she spent a year in Cuba.

"Creating this course for Washington University freshmen was a unique chance to reconnect, to re-explore and to share," Sklodowska said. "My own stay in Cuba was great for my language skills and my knowledge of the culture. Creating this seminar has been one of the most rewarding things I've done here."

Sklodowska visits Cuba once a year or so to continue her research, focusing much of her study on contemporary Cuban narratives. Her main interest is in the conjunction between historical experience and its presentation in literature.

She has focused extensively on Cuban writers who reinvent the history of their country by blending myth and reality.

Her ongoing project, which has been inspired by recent trips to Cuba, centers on the surge in artistic and literary activity in Cuba since the 1990s. Because much of that activity is largely uncharted by literary critics, there is a lot of material to be compiled, analyzed and published.

"Doing research on contemporary Cuban literature and culture is a truly forward-looking project, and I am happy to encourage my doctoral students to explore this line of inquiry," she said.

Sklodowska is a recognized expert on Spanish-American testimonial literature. The hybrid genre of "testimonio" overlaps literature, anthropology and historiography and is most often an outlet for recovering voices muted by official history.

Sklodowska has published six books, including two edited volumes, and more than 60 articles, book chapters and reviews in

three languages.

She has received numerous awards for her writing, including the Mexican literary award "Premio Plural" for best critical essay, and the Northeast Modern Language Association Foreign Language Book Award for her piece on Latin American testimonial narrative — the first book-length study on the topic.

Sklodowska also serves on the editorial board for five journals and is the general co-editor for *Revista de Estudios Hispánicos*, published at the University by her department.

Sklodowska's husband, Philip, works as a theater director and a German and Polish translator. They have two children — Alexander, 14, and Inka, 8.

When she isn't teaching, researching or managing the department, Sklodowska likes to engage in culinary experiments, ranging from Thai curries to multilayered tortes. She also enjoys traveling with her family — both Europe and the Caribbean are on this year's list of their travel destinations.

She also likes to read books that have nothing to do with her professional interests and to do art and science projects with her children.

While being chair of the department certainly keeps her very busy, it's a position she truly values.

"The world I knew best before becoming chair was that of teaching and research," she said. "Now my duties have been multiplied and my responsibilities magnified.

"For me, entering the realm of administration can be likened to the experience of learning a foreign language. Fortunately, once again, I have found encouraging teachers and patient interlocutors, both at the University and at home."

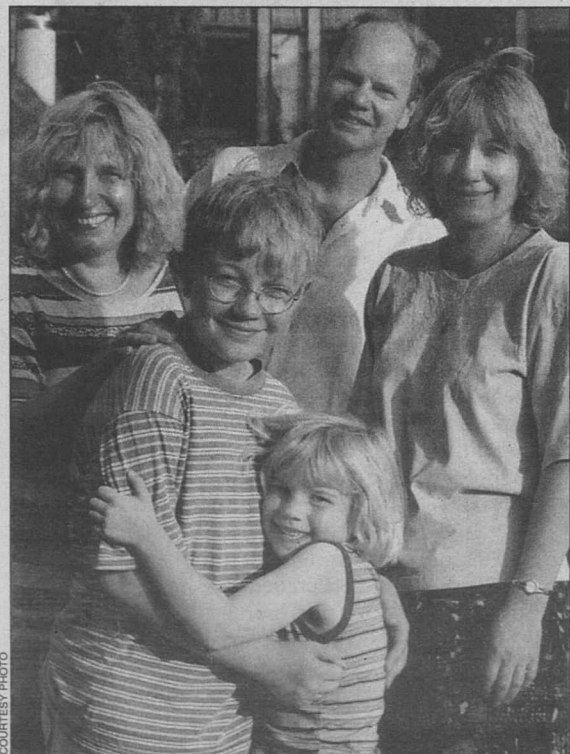
Elzbieta Sklodowska

Title: Chair of the Department of Romance Languages and Literatures in Arts & Sciences; the Raymond R. Randolph, Lee Schroth Randolph, Paula Schroth Krummenacher, and William R. Randolph Professor

Hobbies: Reading, cooking and world travel

Languages spoken: English, Polish and Spanish

Area of academic research: Spanish-American culture and literature with a regional focus on the Caribbean and Cuba, including contemporary Cuban literature and culture



Elzbieta Sklodowska (left) with her husband, Philip; children, Alexander and Inka; and sister, Karolina, during a summer vacation to Warsaw, Poland.